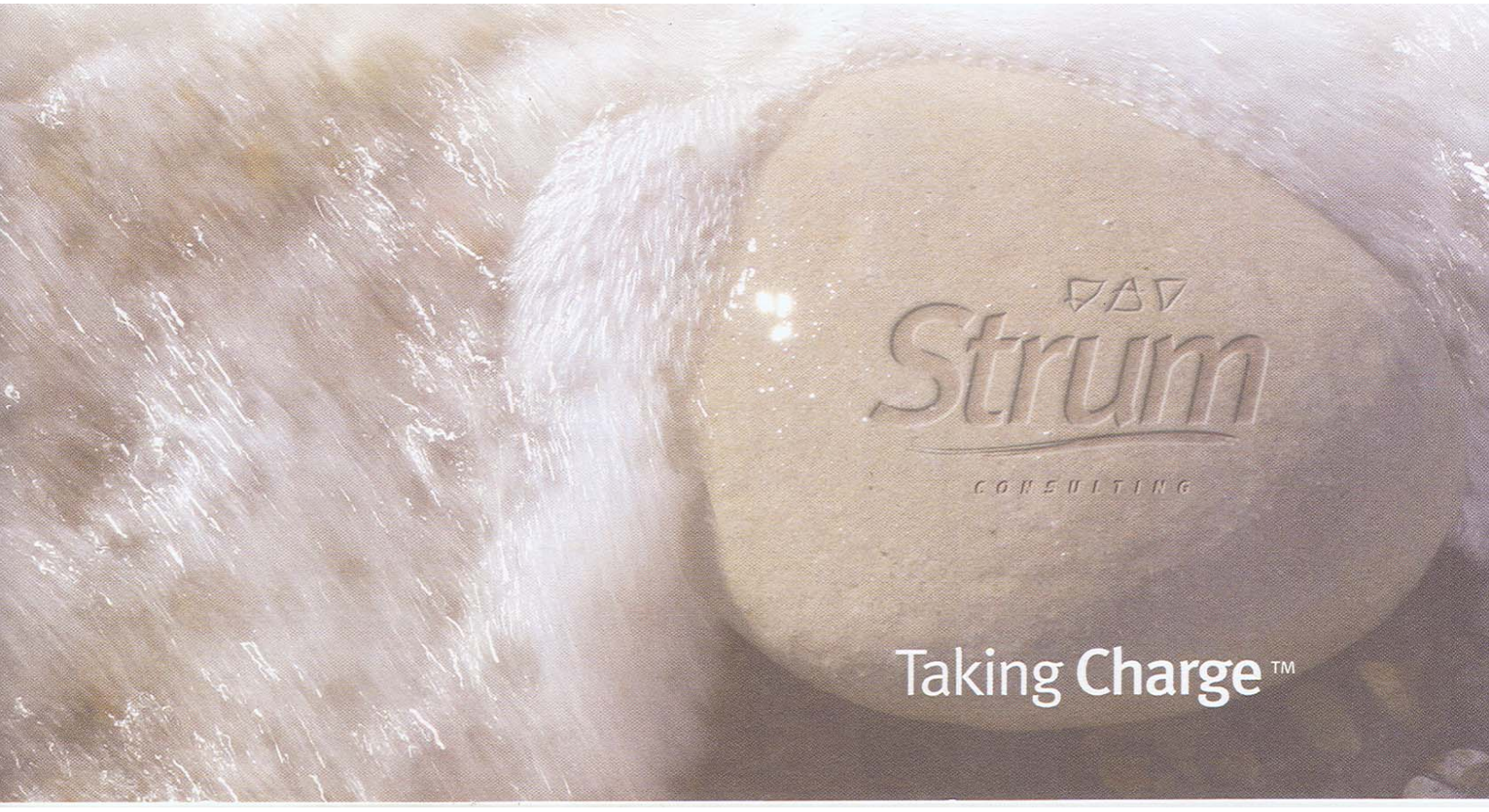
HAZARDOUS BUILDING MATERIALS SURVEY
4030 Eastern Avenue
Parrsboro, NS

April 20, 2021



April 20, 2021

Mr. Justin Waugh-Cress
Municipality of Cumberland
Upper Nappan Service Center
1395 Blair Lake Road
Upper Nappan, NS B4H 3Y4

Dear Mr. Waugh-Cress,

Re: Hazardous Building Materials Survey
4030 Eastern Avenue, Parrsboro, NS

Attached is the Hazardous Building Materials Survey prepared for 4030 Eastern Avenue, Parrsboro, NS.

This report documents our observations, findings, and recommendations.

We trust this to be satisfactory at this time. Once you have had an opportunity to review this correspondence, please contact us to address any questions you may have.

Thank you,

Corey Strong, CET
Environmental Technologist
cstrong@strum.com

Jeff Faulkner, P.Geo.
Senior Project Manager
jfaulkner@strum.com

EXECUTIVE SUMMARY

In March 2021, Strum Consulting was retained by the Municipality of Cumberland to undertake a Hazardous Materials Survey at the former town office and municipal building located at 4030 Eastern Avenue in Parrsboro, Nova Scotia. The scope of the assessment consisted of a site visit to review building materials and the sampling of building materials that may require special handling or disposal during demolition of the building. This report details our findings and recommendations.

Main Findings & Recommendations

The main findings of the assessment are outlined below:

Asbestos Containing Material (ACM)	• Non-friable ACM was identified in transite board panels on the ceilings of the basement level prison cells. The condition of the panelling at the time of the assessment was noted to be relatively degraded in some areas; and therefore, considered to represent an immediate health hazard to anyone who may be exposed to the material. • Non-friable ACM was identified in orange rolled flooring located on the upper-level daycare pantry in the older portion of the building. The condition of the flooring at the time of the assessment was noted to be in relatively good condition; and therefore, is not considered to represent an immediate health hazard. • Non-friable ACM was identified in 12” x 12” white floor tile located on the upper-level washrooms. The ACM 12” by 12” floor tile was noted to be in relatively good condition at the time of the assessment and therefore is not considered to represent any immediate health hazard. • Asbestos abatement practices and precautionary measures protective of human health will be required to safely remove all ACM prior to any demolition or renovations, in the event that these materials are to be disturbed. Should the materials be left to remain, an Asbestos Management Plan should be developed to monitor the condition of the material on a regular basis, and define appropriate procedures and precautionary measures protective of human health.
Lead in Paint	• Concentrations of lead in paint samples were reported to range from non-detectable (i.e., < 5 mg/kg) to 8100 mg/kg. • Two samples collected from the older portion of the building on the second level resulted in lead concentrations exceeding the applicable Surface Coating Materials Regulations (SCMR) of 90 mg/kg, as defined by the Canada Consumer Product Safety. Precautionary measures protective of human health will be required during the disturbance and disposal of lead-based paint exceeding the SCMR guideline criteria. • One sample collected from the remnants of yellow painted plaster over exposed wall slats within the second level drafting office reported leachable lead concentrations that exceed the provincial

	disposal guidelines of 5 mg/L, and therefore, are considered to be leachate toxic and not suitable for regular disposal at a NS Environment (NSE) approved solid waste landfill or C&D waste disposal site. These materials will require disposal through the services of an approved hazardous waste disposal company.
Mercury in Appliances	• Fluorescent light bulbs that may contain trace amounts of mercury were identified throughout the building during the assessment.
Ozone-Depleting Substances (ODS)	• Refrigerators were identified in the assessment area as potentially ODS containing and should be screened for ODS prior to disposal.
Polychlorinated Biphenyls (PCBs)	• Fluorescent light fixtures or other electrical equipment with the potential to contain liquid PCBs were observed within the building during the assessment. Florescent light fixtures should be removed and properly screened for PCBs prior to disposal.
Silica	• Typical of standard construction, concrete, and masonry materials used for foundations, flooring, and walls may contain silica.
Mould	• Potential mould and water damage were observed in the vault area of the first floor. As a best management practice, if mould or water damage is encountered during renovations, workers should wear appropriate PPE, including respirators with organic filters, during building renovation activities.

Based on the findings of this assessment the following recommendations are forwarded:

1. Prior to the completion of any demolition activities, a qualified abatement contractor should be retained to complete the safe removal and disposal of non-friable ACM identified in transite board ceiling panels, vinyl roll flooring, and vinyl 12”x12” flooring tiles. Workers handling ACM should be outfitted with appropriate personal protective equipment (PPE). The appropriate level of barriers and/or containment should be put in place to restrict access to the work areas, until such time that the abatement activities can be completed.

   If the building is to be reoccupied instead of demolition, an Asbestos Management Plan should be developed in the event the ACM is to remain in place, in order to ensure the condition of the ACM is monitored on a regular basis, and to define appropriate procedures and precautionary measures protective of human health should the material need to be removed or otherwise disturbed in the future.

2. Workers handling lead containing paint or building materials containing silica dust should be outfitted with appropriate PPE. Special care should be taken not to grind or pulverize leaded materials during removal. In addition, appropriate dust hoarding should be erected if excessive dust is generated. The remnants of plaster material coated in leachate toxic lead-based paint identified on exposed wall slats within the second level drafting room will require disposal through the services of an approved hazardous waste disposal company.

3. Potentially mercury containing fluorescent bulbs should be removed prior to demolition activities and disposed of in an appropriate manner in accordance with applicable regulations.

4. Although no PCB-containing ballasts were identified, ballasts should be screened on an individual basis to determine PCB content and appropriate disposal options if they are to be disposed of in the future.

5. All fixtures identified to contain an ozone depleting refrigerant should be decommissioned by a qualified refrigeration technician prior to disposal.

This Executive Summary provides a brief overview of the main conclusions of this assessment. Complete details are provided in the report and the attached Appendices. The statements made in this Executive Summary are subject to the same limitations as described in Sections 1.2 and 14.0.

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1.0 INTRODUCTION

In March 2021, Strum Consulting was retained by the Municipality of Cumberland to undertake a Hazardous Materials Survey at the former town office and municipal Building located at 4030 Eastern Ave, Parrsboro, Nova Scotia. The scope of the assessment consisted of a site visit to review building materials and the sampling of building materials that may require special handling or disposal during renovation of the building.

1.1 Scope of Work

The scope of the Hazardous Materials Survey consisted of a site visit on March 25, 2021, to review building materials and the sampling of building materials that may require special handling or disposal during deconstruction. The following is a list of materials reviewed:

- Asbestos containing material (ACM)
- Lead containing material (LCM)
- Mercury
- Ozone depleting substances (ODS)
- Polychlorinated biphenyls (PCBs)
- Silica (free crystalline silica)
- Mould
- Radioactive materials
- Urea formaldehyde foam insulations (UFFI)

Other regulated materials referred to in various provincial and federal regulations are not expected to be present in this location. Should any of the excluded substances be found within the areas designated for deconstruction, they should be assessed on an individual basis prior to disturbance.

1.2 Limitations

While every effort was made to identify all hazardous materials within the assessment area, undiscovered regulated materials may still exist in the building within enclosed areas such as wall cavities.

If additional materials suspected of potentially containing hazardous materials are identified during site work, these materials should be assessed to determine if they contain hazardous materials.

2.0 ASBESTOS SAMPLING & ANALYSIS

2.1 Applicable Guidelines & Regulations

Nova Scotia has issued guidelines and codes of practice for the handling and disposal of ACM. Regulations and Codes of Practice governing asbestos work in Nova Scotia and Federal sites are listed below.

- Code of Practice for Removal of Friable Asbestos Containing Material (11/21/13)
- Code of Practice for A Guide to Assessment & Management of Asbestos in the Workplace (11/21/13)
- Outdoor Work with Asbestos (Removal Projects)
- Asbestos Waste Management Regulations N.S Reg. 53/95
- Canada Occupational Health and Safety Regulations - SOR/86-304
- Hazardous Products Act, R.S., c. H-3
- Hazardous Products (Crocidolite Asbestos) Regulations, SOR/89-440
- Occupational Health and Safety Act, S.N.S 1996

These codes define ACM as a material which contains greater than 0.5% asbestos by volume. Prior to the commencement of any architectural demolition, all identified ACM must be removed from the building and disposed of appropriately. Workers and building occupants must be protected at all times from potential exposure to fibres from both friable and non-friable ACM sources. The American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) for exposure to asbestos is 0.1 fibres/cc. This TLV is enforced through the Nova Scotia Occupational Health and Safety Act.

Where a friable material contains trace amounts of asbestos (i.e., < 0.5%), but has the potential to release sufficient number of fibres, which would create a reasonable potential that airborne concentrations of asbestos will exceed occupational health and safety exposure limits, the materials are to be treated as asbestos-containing and must be removed under controlled conditions prior to general demolition or renovations.

2.2 Asbestos Sampling Methodology

Samples of materials potentially containing asbestos were obtained throughout the building by Strum staff on March 25, 2021. The collection of asbestos samples was performed with the intent to determine a general pattern of asbestos use within the building.

Efforts were made to ensure that every type of material that could potentially contain asbestos was sampled. Materials that were sampled for asbestos content include roofing materials, drywall and drywall joint compound, vinyl roll flooring and flooring tile, insulation, plaster, and transite board.

A total of 27 building material samples [A1(MR25) – A27(MR27)] collected by Strum field staff were submitted to EMSL Analytical in Mississauga, ON, for analysis of asbestos by Polarized Light Microscopy (EPA 600R-93/116). Sampling methodology was in compliance with Strum QA/QC protocols.

Site Plans showing the locations of the collected samples are provided as Drawings 1-3, in Appendix A. A Photo Log of samples collected, along with analytical results, is provided in Appendix B. Laboratory reports are provided in Appendix C.

2.3 Asbestos Sample Results

A summary of the bulk samples collected and the samples found to contain asbestos from the March 25, 2021 sampling event is presented in Table A, below.

Table A: Summary of Bulk Asbestos Samples

Bulk Material	Number of Samples Submitted for Analysis	Number of Samples Identified as ACM
Drywall/Joint Compound	6	0
Flooring Material	5	**2**
Caulking	0	0
Mortar/Parging	0	0
Grout	0	0
Plaster	4	0
Pipe Wrap/Elbows	0	0
Building Wrap	0	0
Ceiling Tile	4	0
Transite Board	2	**2**
Insultation	4	0
Roofing Materials	2	0
Shower Tile	0	0
Total	**27**	**4**

As presented in Table A, ACM was identified in transite board panels located on the ceiling of the former prison cells in the basement. ACM was also Identified in two types of flooring, 12" by 12" white floor tile found on the second-floor washroom, and in orange and brown rolled flooring located on the second floor. No ACM was identified in any of the other building materials sampled.

At the time of testing, the condition of the ACM transite board panelling was noted to be relatively degraded in some areas; and therefore, considered to represent an immediate health hazard to anyone who may be exposed to the material. The ACM vinyl flooring (roll flooring and 12" by 12" tiles) was noted to be in relatively good condition; and therefore, not considered to represent any immediate health hazard.

It is understood that demolition of the site building is to be completed. All ACM containing materials should be safely removed prior to any demolition or disturbance of this material, under controlled conditions by an experienced abatement contractor. Asbestos abatement should be completed as per the applicable provincial regulations and codes of practices presented in this report. The appropriate level of containment should be constructed to prevent the escape of asbestos contamination from the work area. Workers handling ACM should be outfitted with appropriate PPE.

An Asbestos Management Plan (AMP) would be necessary should the building be reoccupied in order to ensure the condition of the ACM is monitored on a regular basis, and to define appropriate procedures and precautionary measures protective of human health should the materteral need to be removed or otherwise disturbed in the future. It is not recommended however that the ACM transite board ceiling panels be left to remain given their current condition.

3.0 LEAD IN PAINT & SURFACE COATINGS

3.1 Applicable Guidelines & Regulations

Regulations and guidelines dealing with the disposal of lead containing materials in Nova Scotia include the following:

- Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids (1994)
- Code of Practice for Working with Lead
- Working with Inorganic Lead – An Information Package
- Hazardous Products Act, R.S., c. H-3

Regulations and guidelines which govern the safe handling and disposal of lead containing materials in Nova Scotia are defined by the Federal Hazardous Products Act (HPA). The amount of lead in consumer paint products is currently regulated according to the Surface Coating Materials Regulations (SCMR) under the Canada Consumer Product Safety Act to not contain more than 90 mg/kg lead.

Disposal of lead-containing materials from a demolition standpoint should be evaluated on an individual basis, taking into account the concentrations contained within the material as well as the total volume of material to be disposed. If the reported concentrations of lead comply with disposal guideline criteria (1,000 mg/kg), the material can be disposed of at a local solid waste disposal facility without any special considerations.

If the concentrations of lead exceed the disposal criteria, additional leachate testing must be completed on the material to determine if the concentrations in a leachate extraction exceed 5 mg/L. This is to prevent toxic materials from leaching or migrating into the ground and creating adverse environmental effects. If lead leachate concentrations are below the landfill disposal guidelines, the material is deemed suitable for disposal at an NSE approved solid waste landfill or C&D waste disposal site. If the material reports leachate concentrations which exceed the landfill guidelines, it is considered *leachate toxic* and must be disposed of at an approved facility.

3.2 Lead in Paint Sampling Methodology

Paint samples were collected by Strum field staff on March 25, 2021 and analyzed to determine the concentrations of lead. The collection of paint samples was performed with the intent to determine a general pattern of paint use within the building. Samples were collected

based on condition, pliability, and layering. Painted areas from which the samples were collected were observed to typically be in fair condition with minor areas of degradation observed.

Seven paint samples [L1(MR25) – L7(MR25)] were submitted to Bureau Veritas Laboratories in Bedford, NS for analysis of lead in paint (ICPMS). Sampling methodology was in compliance with Strum QA/QC protocols.

Site Plans showing the locations of the collected samples are provided as Drawings 1-3 in Appendix A. A Photo Log of samples collected, along with analytical results, is provided in Appendix B. Laboratory reports are provided in Appendix C.

3.3 Lead in Paint Sample Results

Samples collected for lead in paint analysis reported concentrations of lead ranging from non-detectable (i.e., less than the laboratory detection limit of 5 mg/kg) to 8100 mg/kg. Two samples collected from the older portion of the building on the second level resulted in lead concentrations exceeding the applicable SCMR of 90 mg/kg, as defined by the Canada Consumer Product Safety. Precautionary measures protective of human health will be required during the disturbance and disposal of lead-based paint exceeding the SCMR guideline criteria.

Five samples reported lead concentrations that comply with the Nova Scotia Department of the Environment Disposal Guidelines of 1,000 mg/kg; however, the remaining two samples [L1(MR25) and L3(MR25)] reported lead concentrations that exceed the applicable guidelines. Material containing lead in paint concentrations below the applicable guideline of 1,000 mg/kg can be disposed of at a local solid waste disposal facility without any special considerations. To determine disposal requirements for the samples reporting lead concentrations exceeding 1,000 mg/kg were submitted for additional leachate analysis, as detailed in the following Section.

3.4 Leachable Lead in Paint Sample Results

To determine the disposal requirements for materials reported to contain concentrations that exceed the provincial disposal guidelines for lead (1,000 mg/kg), additional leachate testing was completed on samples L1(MR25), and L3(MR25). These samples were analyzed for lead leachate (TCLP) by Bureau Veritas in Bedford, NS. Sampling methodology was in compliance with Strum QA/QC protocols.

Samples L1(MR25), and L3(MR25) submitted for TCLP leachate analysis reported leachate concentrations 0.4 mg/L and 27 mg/L respectively, and therefore, L3(MR25) was identified to contain leachable lead concentrations that exceed the provincial disposal guidelines of 5 mg/L. Based on these findings, yellow painted coating found on the remnants of plaster over exposed wall slats within the second level drafting office are considered to be leachate toxic and not suitable for regular disposal at an NSE approved solid waste landfill or C&D waste disposal site. This will require disposal through the services of an approved hazardous waste disposal

company. All remaining materials sampled reported lead or leachable lead concentrations that comply with the provincial regulations, and therefore, can be disposed of at a local solid waste or C&D facility.

4.0 MERCURY ASSESSMENT

During the site visit, a visual inspection was completed within the assessment area to identify and assess materials potentially containing mercury such as switches, fluorescent lighting, and thermostats. Mercury containing materials are regulated through Health Canada's Hazardous Products Act and Transportation of Dangerous Goods Act.

Fluorescent lighting was identified throughout the building which could potentially contain mercury. No other potential mercury containing appliances/fixtures were identified within the assessment area.

Any appliances/fixtures that potentially contain mercury that are to be removed from the building should be sealed in appropriate sealable containers and be disposed of at an appropriate disposal facility.

5.0 OZONE DEPLETING SUBSTANCES

Strum personnel completed an inventory to document all potential ozone depleting substances (ODS) within the assessment area. To classify the potential of a chemical in relation to its ozone depleting properties, an Ozone Depleting Potential (ODP) is assigned to each gas. This is a relative value that indicates the potential of a substance to destroy ozone gas as compared with the potential of chlorofluorocarbon-11 (CFC-11) which is assigned a reference value of 1. Any substance with an ODP value greater than zero is known to be ozone depleting.

Refrigerators potentially containing ODS were identified in the building during the assessment. No other potential ODS containing appliances/fixtures were identified within the assessment area.

All fixtures/appliances containing or potentially containing ODS should be decommissioned by a qualified refrigeration contractor in accordance with applicable regulations, if the unit is to be disposed of.

6.0 PCB ASSESSMENT

A survey of the assessment area was completed to identify electrical equipment (ballasts, transformers, capacitors) which may contain liquid Polychlorinated Biphenyls (PCBs) and building materials which may contain non-liquid PCBs (i.e., Thiokol caulking).

6.1 Applicable Guidelines & Regulations

Regulatory requirements detailing the manufacturing, processing, and handling of PCB containing materials are listed below.

- Canadian Environmental Protection Act (CEPA) SOR 2008-273
- Nova Scotia PCB Management Regulations N.S. Reg. 163/97

In addition, the Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids (1994) states that material containing PCBs in excess of 50 ppm are not suitable for landfill disposal. Materials which exceed this concentration are classified as hazardous waste and therefore require disposal at an approved hazardous waste disposal facility.

6.2 LPCBs (Liquid PCBs)

Fluorescent light fixtures and other electrical equipment with the potential to contain liquid PCBs were observed within the building during the assessment.

6.3 NLPCBs (Non-Liquid PCBs)

Non-liquid PCBs are materials containing PCBs that by visual inspection do not flow at room temperature (25˚C or 77˚F). Buildings that were constructed or refurbished before 1977 may still contain caulking with elevated levels of PCBs. No materials of concern with respect to Non-liquid PCBs or materials containing PCBs were identified during the assessment.

7.0 SILICA

No sampling of silica containing materials was completed during this assessment, however, silica, sand, and gravel are commonly used in building construction (i.e. concrete, ceramic, and refractory materials). Concrete and/or masonry block used for footings, flooring, and walls inside the building may contain silica.

As a best management practice, special precautions should be undertaken during renovation activities if dust is being generated to protect workers and occupants from potential silica containing dust. At a minimum, PPE should consist of a full body protective suit and a half-faced Air Purifying Respirator employing HEPA P100 filtration.

The American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) for worker exposure to the respirable fraction of crystalline silica is 0.05 mg/m^3.

8.0 MOULD

Mould and water damage were observed within the main level vault area during visual assessment at the time of the site visit. As a best management practice, if mould or water damage is encountered during demolition activities, workers should wear appropriate PPE, including respirators with P100 particulate/organic filters.

9.0 RADIOACTIVE MATERIALS

No radioactive materials were identified within the assessment area.

10.0 UREA FORMALDEHYDE FOAM INSULATION (UFFI)

No UFFI was identified to be within the assessment area.

11.0 OTHER REGULATED MATERIALS

Other regulated materials referred to in various provincial and federal regulations are typically only present in industrial or manufacturing facilities. For this reason, isocyanates, vinyl chloride monomer, benzene, acrylonitrile, coke oven emissions, and ethylene oxide are not expected to be present in this building. Should any of the excluded substances be found within the areas designated for deconstruction, they should be assessed on an individual basis prior to disturbance.

12.0 SUMMARY OF FINDINGS

The findings of the March 2021 Hazardous Building Material Survey completed at the Municipal Building located at 4030 Eastern Ave, Parrsboro, NS are summarized below:

Table B: Summary of Findings

Asbestos Containing Material (ACM)	• Non-friable ACM was identified in transite board panels on the ceilings of the basement level prison cells. The condition of the panelling at the time of the assessment was noted to be relatively degraded in some areas; and therefore, considered to represent an immediate health hazard to anyone who may be exposed to the material. • Non-friable ACM was identified in orange rolled flooring located on the upper-level daycare pantry in the older portion of the building. The condition of the flooring at the time of the assessment was noted to be in relatively good condition; and therefore, is not considered to represent an immediate health hazard. • Non-friable ACM was identified in 12” x 12” white floor tile located on the upper-level washrooms. The ACM 12” by 12” floor tile was noted to be in relatively good condition at the time of the assessment and therefore is not considered to represent an immediate health hazard. • Asbestos abatement practices and precautionary measures protective of human health will be required to safely remove all ACM prior to any demolition or renovations, in the event that these materials are to be disturbed. Should the materials be left to remain, an Asbestos Management Plan should be developed to monitor the

	condition of the material on a regular basis, and define appropriate procedures and precautionary measures protective of human health.
Lead in Paint	• Concentrations of lead in paint samples were reported to range from non-detectable (i.e., < 5 mg/kg) to 8100 mg/kg. • Two samples collected from the older portion of the building on the second level resulted in lead concentrations exceeding the applicable SCMR of 90 mg/kg, as defined by the Canada Consumer Product Safety. Precautionary measures protective of human health will be required during the disturbance and disposal of lead-based paint exceeding the SCMR guideline criteria. • One sample collected from the remnants of yellow painted plaster over exposed wall slats within the second level drafting office reported leachable lead concentrations that exceed the provincial disposal guidelines of 5 mg/L, and therefore, are considered to be leachate toxic and not suitable for regular disposal at an NSE approved solid waste landfill or C&D waste disposal site. These materials will require disposal through the services of an approved hazardous waste disposal company.
Mercury in Appliances	• Fluorescent light bulbs that may contain trace amounts of mercury were identified throughout the building during the assessment.
Ozone-Depleting Substances (ODS)	• Refrigerators were identified in the assessment area as potentially ODS containing and should be screened for ODS prior to disposal.
Polychlorinated Biphenyls (PCBs)	• Fluorescent light fixtures or other electrical equipment with the potential to contain liquid PCBs were observed within the building during the assessment. Florescent light fixtures should be removed and properly screened for PCBs prior to disposal.
Silica	• Typical of standard construction, concrete, and masonry materials used for foundations, flooring, and walls may contain silica.
Mould	• Potential mould and water damage were observed in the vault area of the first floor. As a best management practice, if mould or water damage is encountered during renovations, workers should wear appropriate PPE, including respirators with organic filters, during building renovation activities.

13.0 RECOMMENDATIONS

Based on the findings of this assessment the following recommendations are forwarded:

1. Prior to the completion of any demolition activities, a qualified abatement contractor should be retained to complete the safe removal and disposal of non-friable ACM identified in transite board ceiling panels, vinyl roll flooring, and vinyl 12”x12” flooring tiles. Workers handling ACM should be outfitted with appropriate PPE. The appropriate level of barriers and/or containment should be put in place to restrict access to the work areas, until such time that the abatement activities can be completed.

   If the building is to be reoccupied instead of demolition, an Asbestos Management Plan should be developed in the event the ACM is to remain in place, in order to ensure the condition of the ACM is monitored on a regular basis, and to define appropriate procedures and precautionary measures protective of human health should the material need to be removed or otherwise disturbed in the future.

2. Workers handling lead containing paint or building materials containing silica dust should be outfitted with appropriate PPE. Special care should be taken not to grind or pulverize leaded materials during removal. In addition, appropriate dust hoarding should be erected if excessive dust is generated. The remnants of plaster material coated in leachate toxic lead-based paint identified on exposed wall slats within the second level drafting room will require disposal through the services of an approved hazardous waste disposal company.

3. Potentially mercury containing fluorescent bulbs should be removed prior to demolition activities and disposed of in an appropriate manner in accordance with applicable regulations.

4. Although no PCB-containing ballasts were identified, ballasts should be screened on an individual basis to determine PCB content and appropriate disposal options if they are to be disposed of in the future.

5. All fixtures identified to contain an ozone depleting refrigerant should be decommissioned by a qualified refrigeration technician prior to disposal.

14.0 STATEMENT OF QUALIFICATIONS AND LIMITATIONS

This Report (the "Report") has been prepared by Strum Consulting ("Consultant") for the benefit of by the Municipality of Cumberland ("Client") in accordance with the agreement between Consultant and Client, including the scope of work detailed therein (the "Agreement").

The information, data, recommendations, and conclusions contained in the Report (collectively, the "Information"):

- is subject to the scope, schedule, and other constraints and limitations in the Agreement and the qualifications contained in the Report (the "Limitations");
- represents Consultant's professional judgement in light of the Limitations and industry standards for the preparation of similar reports;
- may be based on information provided to Consultant which has not been independently verified;
- has not been updated since the date of issuance of the Report and its accuracy is limited to the time period and circumstances in which it was collected, processed, made or issued;
- must be read as a whole and sections thereof should not be read out of such context;
- was prepared for the specific purposes described in the Report and the Agreement;
- in the case of subsurface, environmental, or geotechnical conditions, may be based on limited testing and on the assumption that such conditions are uniform and not variable either geographically or over time

Consultant shall be entitled to rely upon the accuracy and completeness of information that was provided and has no obligation to update such information. Consultant accepts no responsibility for any events or circumstances that may have occurred since the date on which the Report was prepared and, in the case of subsurface, environmental, or geotechnical conditions, is not responsible for any variability in such conditions, geographically or over time.

Consultant agrees that the Report represents its professional judgement as described above and that the Information has been prepared for the specific purpose and use described in the Report and the Agreement, but Consultant makes no other representations, or any guarantees or warranties whatsoever, whether express or implied, with respect to the Report, the Information or any part thereof.

The Report is to be treated as confidential and may not be used or relied upon by third parties, except:

- as agreed in writing by Consultant and Client;
- as required by law; and
- for use by governmental reviewing agencies.

Consultant accepts no responsibility, and denies any liability whatsoever, to parties other than Client who may obtain access to the Report or the Information for any injury, loss, or damage suffered by such parties arising from their use of, reliance upon, or decisions or actions based on the Report or any of the Information ("improper use of the Report"), except to the extent those parties have obtained the prior written consent of Consultant to use and rely upon the Report and the Information. Any damages arising from improper use of the Report or parts thereof shall be borne by the party making such use.

This Statement of Qualifications and Limitations forms part of the Report and any use of the Report is subject to the terms hereof.

This report was prepared by Corey Strong, CET, Environmental Technologist, and was reviewed by Jeff Faulkner, P.Geo., Senior Project Manager.

APPENDIX A
SITE DIAGRAMS



LEGEND:

ASBESTOS SAMPLE..... A#(mmdd) A#(mmdd)

LEAD SAMPLE..... L#(mmdd) L#(mmdd)

GENERAL NOTES:

1. ALL SITE FEATURES AND SERVICES ARE APPROXIMATE ONLY. SUBJECT TO SURVEY.
2. RED ASBESTOS SAMPLE INDICATES - ASBESTOS CONTAINING MATERIALS
3. RED LEAD SAMPLE INDICATES - SAMPLE EXCEEDING DEPARTMENT OF ENVIRONMENT DISPOSAL GUIDELINES

CLIENT:

MUNICIPALITY OF CUMBERLAND

PROJECT:

HAZARDOUS MATERIALS SURVEY

LOCATION:

4030 EASTERN AVE,
PARRSBORO, N.S.

TITLE:

MAIN FLOOR

CONSULTANT:

Strum CONSULTING
Engineering * Surveying * Environmental
Bedford * Antigonish * St John's * Moncton

SCALE:
H: 1:100 V:

DATE: APRIL 2021

DRAWN: L. PEMBERTON

DESIGNED:

CHECKED: C. STRONG

APPR'D: J. FAULKNER

PROJECT No.: 21-7850

DRAWING No.: 1

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MUNICIPAL BUILDING
CIVIC NO. 4030



0 1 2 3 4 5 metres
Scale 1:100

LEGEND:

ASBESTOS SAMPLE..... A#(mmdd) A#(mmdd)

LEAD SAMPLE..... L#(mmdd) L#(mmdd)

GENERAL NOTES:

1. ALL SITE FEATURES AND SERVICES ARE APPROXIMATE ONLY. SUBJECT TO SURVEY.
2. RED ASBESTOS SAMPLE INDICATES - ASBESTOS CONTAINING MATERIALS
3. RED LEAD SAMPLE INDICATES - SAMPLE EXCEEDING DEPARTMENT OF ENVIRONMENT DISPOSAL GUIDELINES

CLIENT:
MUNICIPALITY OF CUMBERLAND

PROJECT:
HAZARDOUS MATERIALS SURVEY

LOCATION:
4030 EASTERN AVE,
PARRSBORO, N.S.

TITLE:
TOP FLOOR

CONSULTANT:
Strum CONSULTING
Engineering * Surveying * Environmental
Bedford * Antigonish * St John's * Moncton

SCALE:
H: 1:100 V:

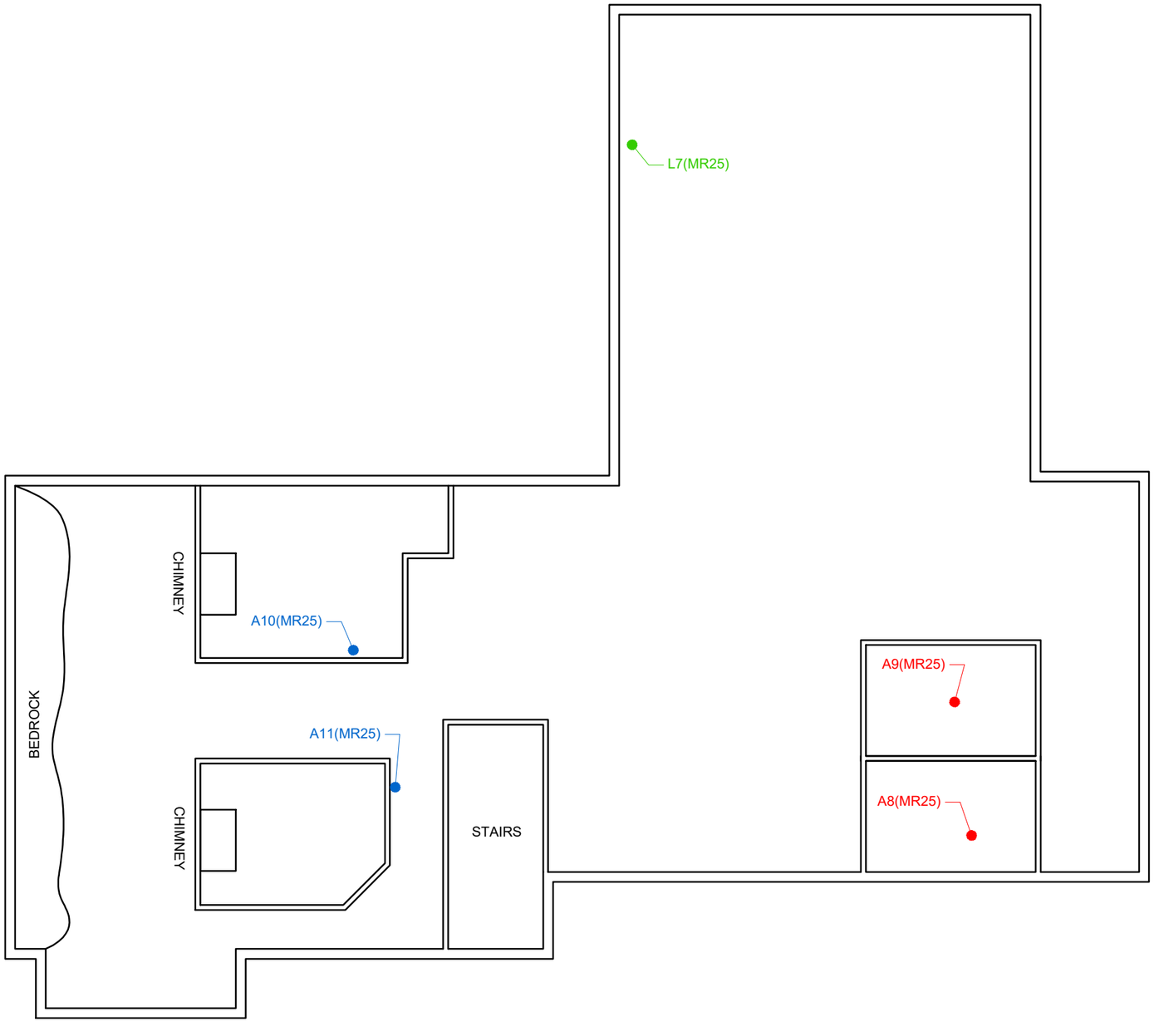
DATE: APRIL 2021
DRAWN: L. PEMBERTON
DESIGNED:
CHECKED: C. STRONG
APPR'D: J. FAULKNER

PROJECT No.: 21-7850

DRAWING No.: 2

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0 1 2 3 4 5 metres

Scale 1:100

LEGEND:

ASBESTOS SAMPLE..... A#(mmdd) A#(mmdd)

LEAD SAMPLE..... L#(mmdd) L#(mmdd)

GENERAL NOTES:

1. ALL SITE FEATURES AND SERVICES ARE APPROXIMATE ONLY. SUBJECT TO SURVEY.
2. RED ASBESTOS SAMPLE INDICATES - ASBESTOS CONTAINING MATERIALS
3. RED LEAD SAMPLE INDICATES - SAMPLE EXCEEDING DEPARTMENT OF ENVIRONMENT DISPOSAL GUIDELINES

CLIENT:

MUNICIPALITY OF CUMBERLAND

PROJECT:

HAZARDOUS MATERIALS SURVEY

LOCATION:

4030 EASTERN AVE,
PARRSBORO, N.S.

TITLE:

BASEMENT

CONSULTANT:

Strum CONSULTING

Engineering * Surveying * Environmental
Bedford * Antigonish * St John's * Moncton

SCALE:
H: 1:100 V:

DATE: APRIL 2021

DRAWN: L. PEMBERTON

DESIGNED:

CHECKED: C. STRONG

APPR'D: J. FAULKNER

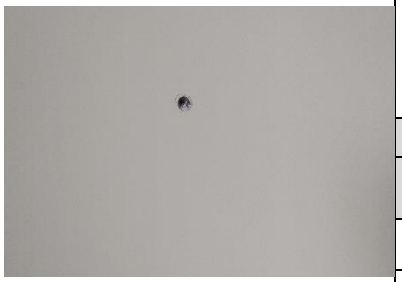
PROJECT No.: 21-7850

DRAWING No.: 3

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APPENDIX B
SAMPLE PHOTO LOGS

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result			
A1(MR25)	Drywall	Municipal Building First Floor, Administrative Office		Drywall Core Sample	**Covering**	None	
					Condition	Good	
					Access	A	
					Hazard	None	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0001			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Drywall	-	0%	100%
A2(MR25)	Drywall	Municipal Building First Floor, Hallway		Drywall Core Sample	**Covering**	None	
					Condition	Good	
					Access	A	
					Hazard	None	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0002			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Drywall	-	0%	100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A3(MR25)	12 X 12" Red Floor Tile	Municipal Building First Floor, Hallway / Lobby		12' X 12" red floor tile **Covering**: None **Condition**: Good **Access**: A **Hazard**: None **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0003

Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
Floor tile	-	0%	100%

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A4(MR25)	12 X 12" White Floor Tile	Municipal Building First Floor, Hallway / Lobby		Two Phases 1) White 12"x12" floor tile 2) Mastic **Covering**: None **Condition**: Fair **Access**: A **Hazard**: None **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0004 **PLM Analytical Results –** Lab ID # 552105285-0004A

Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
Floor Tile	-	0%	100%
Mastic	-	0%	100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result			
A5(MR25)	Ceiling Tile	Municipal Building First Floor, Administrative Office		White Drop Ceiling Tile	**Covering**	None	
					Condition	Good	
					Access	A	
					Hazard	None	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0005			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Ceiling Tile	-	80%	20%
A6(MR25)	Parging on Lath Wall Hidden Under Drywall	Municipal Building First Floor, Administrative Office, Chimney Chase		Parging Over Lath Wall, Hidden Behind Drywall	**Covering**	Drywall	
					Condition	Fair	
					Access	D	
					Hazard	None	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0006			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Plaster / Parging Over Lath Wall	-	0%	100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A7(MR25)	Ceiling Tile	Municipal Building First Floor, Hallway Area		White Drop Ceiling Tile **Covering**: None **Condition**: Good **Access**: A **Hazard**: None **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0005 Phase: Ceiling Tile; Asbestos Fibres (%): -; Non-asbestos fibres (%): 80%; Non-fibrous material (%): 20%
A8(MR25)	Ceiling Transite Board	Municipal Building Basement, Old Prison Cell		Gray Transite Board, Prison Cell Ceiling **Covering**: None **Condition**: Fair **Access**: A **Hazard**: Yes **Friability**: Friable **PLM Analytical Results** – Lab ID # 552105285-0008 **Phase**: **Ceiling Board**; **Asbestos Fibres (%)**: **8% Amosite 6% Chrysotile**; **Non-asbestos fibres (%)**: **0%**; **Non-fibrous material (%)**: **86%**

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A9(MR25)	Ceiling Transite Board	Municipal Building Basement, Old Prison Cell		Gray Transite Board, Prison Cell Ceiling **Covering**: None **Condition**: Poor **Access**: A **Hazard**: Yes **Friability**: Friable **PLM Analytical Results** – Lab ID # 552105285-0009 **Ceiling Board**: **12% Chrysotile**; **0%**; **88%** (Asbestos Fibres (%); Non-asbestos fibres (%); Non-fibrous material (%))
A10(MR25)	Drywall Joint Compound	Municipal Building Basement, Furnace Room		White Drywall Joint Compound **Covering**: None **Condition**: Good **Access**: A **Hazard**: No **Friability**: - **PLM Analytical Results** – Lab ID # 552105285-0010 Joint Compound: -; 0%; 100% (Asbestos Fibres (%); Non-asbestos fibres (%); Non-fibrous material (%))

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A11(MR25)	Drywall Joint Compound	Municipal Building Basement, Furnace Room		White Drywall Joint Compound **Covering**: None **Condition**: Good **Access**: A **Hazard**: No **Friability**: - **PLM Analytical Results** – Lab ID # 552105285-0011 Phase: Joint Compound; Asbestos Fibres (%): -; Non-asbestos fibres (%): 0%; Non-fibrous material (%): 100%
A12(MR25)	Lath Plaster Above Ceiling Tile, On Attic Lath Board.	Municipal Building, Ceiling Above Daycare and Attic Cavity		Lath Plaster **Covering**: Drop Ceiling **Condition**: Fair **Access**: C **Hazard**: None **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0012 Phase: Parging on Lath; Asbestos Fibres (%): -; Non-asbestos fibres (%): 0%; Non-fibrous material (%): 100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result			
A13(MR25)	Cellulose Insulation	Municipal Building, Daycare Attic		Grey to Brown Cellulose Insulation	**Covering**	Ceiling / Lath	
					Condition	Poor	
					Access	D	
					Hazard	No	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0013			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Cellulose Insulation	-	80%	20%
A14(MR25)	Cellulose Insulation	Municipal Building, Hallway Attic		Grey to Brown Cellulose Insulation	**Covering**	Ceiling / Lath	
					Condition	Good	
					Access	D	
					Hazard	None	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0013			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Cellulose Insulation	-	85%	15%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A15(MR25)	Cellulose Insulation	Municipal Building, Hallway Attic		Grey to Brown Cellulose Insulation **Covering**: Ceiling / Lath **Condition**: Poor **Access**: D **Hazard**: No **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0015 Cellulose Insulation: Asbestos Fibres (%) -; Non-asbestos fibres (%) 85%; Non-fibrous material (%) 15%
A16(MR25)	Lath Plaster	Municipal Building, Cavity under Drop Ceiling, Attic Lath		Two Phases 1) Plaster skim coat 2) Plaster rough coat **Covering**: None **Condition**: Good **Access**: D **Hazard**: No **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0016 **PLM Analytical Results** – Lab ID # 552105285-0016A Skim Coat: Asbestos Fibres (%) -; Non-asbestos fibres (%) 0%; Non-fibrous material (%) 100% Rough Coat: Asbestos Fibres (%) -; Non-asbestos fibres (%) 1%; Non-fibrous material (%) 99%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result			
A17(MR25)	Rolled Flooring	Municipal Building, Upper Level, Daycare, Pantry		Orange Rolled Floor	**Covering**	None	
					Condition	Good	
					Access	A	
					Hazard	Yes	
					Friability	Non-Friable	
				PLM Analytical Results – Lab ID # 552105285-0017			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Brown and Orange Rolled Flooring	**15% Chrysotile**	**-**	**85**
A18(MR25)	Rolled Flooring	Municipal Building, Upper-Level Foyer / Hall		Orange Rolled Floor, Blue under layer	**Covering**	None	
					Condition	Good	
					Access	A	
					Hazard	No	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0018			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Flooring	-	0%	100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A19(MR25)	Drop Ceiling Tile	Municipal Building, Upper Level, Daycare		White Drop Ceiling Tile **Covering**: None **Condition**: Good **Access**: A **Hazard**: No **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0019

Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
Ceiling Tile	-	75%	25%

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A20(MR25)	White Floor tile (12” X 12”)	Municipal Building, Upper Level, Washroom Flooring		Two Phases 1) White 12’ X 12” Floor tiles 2) Mastic **Covering**: Paint **Condition**: Good **Access**: A **Hazard**: No **Friability**: Non-Friable **PLM Analytical Results** – Lab ID # 552105285-0020 **PLM Analytical Results** – Lab ID # 552105285-0020A

Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
Floor Tile	**3% Chrysotile**	**0%**	**97%**
Mastic	N/A	0%	100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A21(MR25)	Drywall	Municipal Building, Upper Level, Office		Drywall **Covering**: Paint **Condition**: Fair **Access**: A **Hazard**: No **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0021 Phase: Drywall; Asbestos Fibres (%): -; Non-asbestos fibres (%): 0%; Non-fibrous material (%): 100%
A22(MR25)	Drywall	Municipal Building, Upper Level, Office		Drywall **Covering**: Paint **Condition**: Fair **Access**: A **Hazard**: No **Friability**: N/A **PLM Analytical Results** – Lab ID # 552105285-0022 Phase: Drywall; Asbestos Fibres (%): -; Non-asbestos fibres (%): 0%; Non-fibrous material (%): 100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result			
A23(MR25)	Ceiling Tile / Fiber Board Panels	Municipal Building		Ceiling Tile / Fiber Board Panel	**Covering**	None	
					Condition	Good	
					Access	A	
					Hazard	No	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0023			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Ceiling Panel	-	85%	15%
A24(MR25)	Lath Plaster	Municipal Building		Gray Lath Plaster	**Covering**	Drop Ceiling	
					Condition	Fair	
					Access	C	
					Hazard	No	
					Friability	N/A	
				PLM Analytical Results – Lab ID # 552105285-0024			
				Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
				Plaster	-	0%	100%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A25(MR25)	Cellulose Insulation	Municipal Building Main floor Hallway, Wall Cavity Interior Wall		Brown to Gray Cellulose Fiber **Coverin**: Wall Materials **Conditi**: Poor **Access**: D **Hazard**: No **Friabilit**: N/A **PLM Analytical Results** – Lab ID # 552105285-0025

Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
Cellulose	-	85%	15%

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result
A26(MR25)	Asphalt Shingle	Municipal Building, Roofing		Black Asphalt Shingle **Coverin**: None **Conditi**: Fair **Access**: C **Hazard**: None **Friabilit**: N/A **PLM Analytical Results** – Lab ID # 552105285-0026

Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
Shingle	N/A	35%	65%

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	21-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro, NS
	Asbestos Analysis By:	EMSL Analytical		

Sample ID	Material Type	Area	Photo	Material Description & Analytical Result		
A27(MR25)	Asphalt Shingle	Municipal Building, Roofing		Black Asphalt Shingle	Coverin	None
					Conditio	Fair
					Access	C
					Hazard	None
					Friability	N/A

PLM Analytical Results – Lab ID # 552105285-0027

Phase	Asbestos Fibres (%)	Non-asbestos fibres (%)	Non-fibrous material (%)
Shingle	N/A	35%	65%

Legend:

ACCESS		CONDITION	
A	All Building Occupants	Good	No visible damage or exposed material
B	Maintenance & Operations Staff without use of a ladder	Fair	Repairable damage with minor amounts of exposed material
C	Maintenance & Operations Staff with use of a ladder	Poor	Irreparable damage with exposed and missing material
D	Inaccessible		

nd = None Detected (no asbestos fibres were observed)

Strum CONSULTING	**Project #**	20-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and Exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro NS.
	Paint Analysis By:	Bureau Veritas Labs		

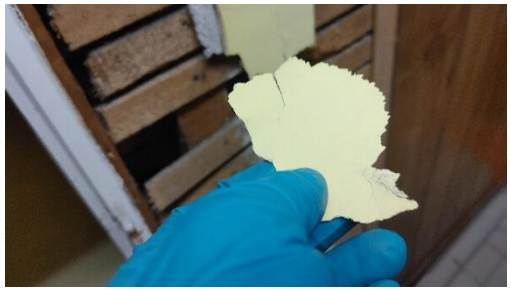
Sample ID	Material Type	Area	Photo	Analytical Result
L1(MR25)	Peach Paint	Municipal Building, Second Floor, Drafting Office		**Analytes / Result / RDL / *Guideline** **Lead** — **4300 mg/kg** — 5.0 mg/kg — 1000 mg/kg **Lab-Dup** — **4800 mg/kg** — 5.0 mg/kg — 1000 mg/kg Leachable Lead — 0.4 mg/L — 0.005 mg/L — 5 mg/L **Paint Metals: Lab ID NFI821** * Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids In Landfills, 2004.
L2(MR25)	Teal/ Blue Paint	Municipal Building, Second Floor, Office		**Analytes / Result / RDL / *Guideline** Lead — nd — 5.0 mg/kg — 1000 mg/kg **Paint Metals: Lab ID NFI822** * Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids In Landfills, 2004.

Legend:

ACCESS		CONDITION	
A	All Building Occupants	Good	No visible damage or exposed material
B	Maintenance & Operations Staff without use of a ladder	Fair	Repairable damage with minor amounts of exposed material
C	Maintenance & Operations Staff with use of a ladder	Poor	Irreparable damage with exposed and missing material
D	Inaccessible		

nd = None Detected

Strum CONSULTING	**Project #**	20-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and Exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro NS.
	Paint Analysis By:	Bureau Veritas Labs		

Sample ID	Material Type	Area	Photo	Analytical Result
L3(MR25)	Yellow Paint, Plaster Under Drywall	Municipal Building, Second Floor, Drafting Office		**Analytes** / **Result** / **RDL** / ***Guideline** **Lead** / **8100 mg/kg** / 10.0 mg/kg / 1000 mg/kg **Leachable Lead** / **27 mg/L** / 0.1 mg/L / 5 mg/L **Paint Metals:** Lab ID * Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids In Landfills, 2004.
L4(MR25)	White Railing / Exterior Paint	Municipal Building, Exterior Decks, and Trim		**Analytes** / **Result** / **RDL** / ***Guideline** Lead / 52 mg/kg / 5.0 mg/kg / 1000 mg/kg **Paint Metals:** Lab ID * Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids In Landfills, 2004.

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected

Strum CONSULTING	**Project #**	20-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and Exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro NS.
	Paint Analysis By:	Bureau Veritas Labs		

Sample ID	Material Type	Area	Photo	Analytical Result
L5(MR25)	Blue Paint	Municipal Building, Skirting Around Accessible Ramp		**Analytes** / **Result** / **RDL** / ***Guideline**: Lead — 22 mg/kg — 5.0 mg/kg — 1000 mg/kg **Paint Metals:** Lab ID * Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids In Landfills, 2004.
L6(MR25)	White Paint	Municipal Building, First Floor, Hallway		**Analytes** / **Result** / **RDL** / ***Guideline**: Lead — 32 mg/kg — 5.0 mg/kg — 1000 mg/kg; Lab-Dup — 36 mg/lg — 5.0 mg/kg — 1000 mg/kg **Paint Metals:** Lab ID * Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids In Landfills, 2004.

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected

Strum CONSULTING	**Project #**	20-7850	**Field Work Date:**	March 25, 2021
	Assessment Area(s):	Building(s) Interior and Exterior	**Site Address:**	4030 Eastern Avenue, Parrsboro NS.
	Paint Analysis By:	Bureau Veritas Labs		

Sample ID	Material Type	Area	Photo	Analytical Result
L7(MR25)	Grey Paint	Municipal Building, Basement Jail Area, Floor Paint		**Analytes** / **Result** / **RDL** / ***Guideline** Lead / 31mg/kg / 5.0 mg/kg / 1000 mg/kg **Paint Metals: Lab ID** * Nova Scotia Department of the Environment Guidelines for Disposal of Contaminated Solids In Landfills, 2004.

Legend:

ACCESS		CONDITION	
A	**All Building Occupants**	**Good**	**No visible damage or exposed material**
B	**Maintenance & Operations Staff without use of a ladder**	**Fair**	**Repairable damage with minor amounts of exposed material**
C	**Maintenance & Operations Staff with use of a ladder**	**Poor**	**Irreparable damage with exposed and missing material**
D	**Inaccessible**		

nd = None Detected

APPENDIX C
LABORATORY REPORTS

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order 552105285
Customer ID: 55STRU78
Customer PO: 21-7850
Project ID:

Attn: Jeff Faulkner
Strum Consulting
Railside, 1355 Bedford Highway
Bedford, Nova Scotia, NS B4A 1C5

Phone: (902) 835-5560
Fax: (902) 835-5574
Collected: 3/25/2021
Received: 3/29/2021
Analyzed: 4/05/2021

Proj: 21-7850

Test Report: Asbestos Analysis of Bulk Materials for Nova Scotia Code of Practice Section 66 OHS Act - Asbestos in the Workplace via EPA600/R-93/116 Method

Client Sample ID: A1 (MR25) ***Lab Sample ID:*** **552105285-0001**
Sample Description: Municipal Building, Main Floor, Main Office/Drywall Core Sample

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	100.0%	None Detected	

Client Sample ID: A2 (MR25) ***Lab Sample ID:*** **552105285-0002**
Sample Description: Municipal Building Addition, Main Floor, Corner Office (Office 4)/Drywall Core Sample

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	100.0%	None Detected	

Client Sample ID: A3 (MR25) ***Lab Sample ID:*** **552105285-0003**
Sample Description: Municipal Building, Main Floor, Entrance Lobby/Red Floor 12"x12" Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Red	0.0%	100.0%	None Detected	

Client Sample ID: A4 (MR25)-Floor Tile ***Lab Sample ID:*** **552105285-0004**
Sample Description: Municipal Building, Main Floor, Main Office Entrance/White Floor 12"x12" Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	100.0%	None Detected	

Client Sample ID: A4 (MR25)-Mastic ***Lab Sample ID:*** **552105285-0004A**
Sample Description: Municipal Building, Main Floor, Main Office Entrance/White Floor 12"x12" Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Yellow	0.0%	100.0%	None Detected	

Client Sample ID: A5 (MR25) ***Lab Sample ID:*** **552105285-0005**
Sample Description: Municipal Building, Main Floor, Main Office/Drop Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	80.0%	20.0%	None Detected	

Client Sample ID: A6 (MR25) ***Lab Sample ID:*** **552105285-0006**
Sample Description: Municipal Building, Main Floor, Main Office, Behind Wall, Chimney Chase/Chimney Parging Overcoat

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	0.0%	100.0%	None Detected	

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EMSL Canada Order 552105285
Customer ID: 55STRU78
Customer PO: 21-7850
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Nova Scotia Code of Practice Section 66 OHS Act - Asbestos in the Workplace via EPA600/R-93/116 Method

Client Sample ID: A7 (MR25) ***Lab Sample ID:*** **552105285-0007**

Sample Description: Municipal Building Addition, Main Floor, Hallway Area/Drop Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	80.0%	20.0%	None Detected	

Client Sample ID: A8 (MR25) ***Lab Sample ID:*** **552105285-0008**

Sample Description: Municipal Building , Basement Level, Old Jail Holidng Cell/Ceiling, Transite Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	0.0%	86.0%	**8% Amosite**	
					6% Chrysotile	

Client Sample ID: A9 (MR25) ***Lab Sample ID:*** **552105285-0009**

Sample Description: Municipal Building , Basement Level, Old Jail Holidng Cell/Ceiling, Transite Board

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	0.0%	88.0%	**12% Chrysotile**	

Client Sample ID: A10 (MR25) ***Lab Sample ID:*** **552105285-0010**

Sample Description: Municipal Building , Basement Level, Furnace Room/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	100.0%	None Detected	

Client Sample ID: A11 (MR25) ***Lab Sample ID:*** **552105285-0011**

Sample Description: Municipal Building , Basement Level, Furnace Room/Drywall Joint Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	100.0%	None Detected	

Client Sample ID: A12 (MR25) ***Lab Sample ID:*** **552105285-0012**

Sample Description: Municipal Building , Upper Level, Daycare Area/Parging above ceiling tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	0.0%	100.0%	None Detected	

Client Sample ID: A13 (MR25) ***Lab Sample ID:*** **552105285-0013**

Sample Description: Municipal Building , Upper Level, Daycare Area/Attic Cellulose or Fiber insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Brown	80.0%	20.0%	None Detected	

Client Sample ID: A14 (MR25) ***Lab Sample ID:*** **552105285-0014**

Sample Description: Municipal Building , Upper Level, Hallway/Attic Cellulose or Fiber insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Brown	85.0%	15.0%	None Detected	

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EMSL Canada Order 552105285
Customer ID: 55STRU78
Customer PO: 21-7850
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Nova Scotia Code of Practice Section 66 OHS Act - Asbestos in the Workplace via EPA600/R-93/116 Method

Client Sample ID: A15 (MR25) ***Lab Sample ID:*** **552105285-0015**

Sample Description: Municipal Building , Upper Level, Hallway/Attic Cellulose or Fiber insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Brown	85.0%	15.0%	None Detected	

Client Sample ID: A16 (MR25)-Skim Coat ***Lab Sample ID:*** **552105285-0016**

Sample Description: Municipal Building , Upper Level, Hallway/Parging Material

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	100.0%	None Detected	

Client Sample ID: A16 (MR25)-Rough Coat ***Lab Sample ID:*** **552105285-0016A**

Sample Description: Municipal Building , Upper Level, Hallway/Parging Material

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	1.0%	99.0%	None Detected	

Client Sample ID: A17 (MR25) ***Lab Sample ID:*** **552105285-0017**

Sample Description: Municipal Building , Upper Level, Daycare Pantry/Orange and Brown Rolled Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Orange	0.0%	85.0%	**15% Chrysotile**	

Client Sample ID: A18 (MR25) ***Lab Sample ID:*** **552105285-0018**

Sample Description: Municipal Building , Upper Level, Daycare/Orange and Brown Rolled Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Blue/Orange	0.0%	100.0%	None Detected	

Client Sample ID: A19 (MR25) ***Lab Sample ID:*** **552105285-0019**

Sample Description: Municipal Building , Upper Level, Daycare/Drop Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Brown	75.0%	25.0%	None Detected	

Client Sample ID: A20 (MR25)-Floor Tile ***Lab Sample ID:*** **552105285-0020**

Sample Description: Municipal Building Addition, Upper Level, Washroom/White Floor 12"x12" Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	97.0%	**3% Chrysotile**	

Client Sample ID: A20 (MR25)-Mastic ***Lab Sample ID:*** **552105285-0020A**

Sample Description: Municipal Building Addition, Upper Level, Washroom/White Floor 12"x12" Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Yellow	0.0%	100.0%	None Detected	

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EMSL Canada Order 552105285
Customer ID: 55STRU78
Customer PO: 21-7850
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Nova Scotia Code of Practice Section 66 OHS Act - Asbestos in the Workplace via EPA600/R-93/116 Method

Client Sample ID: A21 (MR25) ***Lab Sample ID:*** **552105285-0021**

Sample Description: Municipal Building Addition, Upper Level, Office 5/Drywall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	White	0.0%	100.0%	None Detected	

Client Sample ID: A22 (MR25) ***Lab Sample ID:*** **552105285-0022**

Sample Description: Municipal Building Addition, Upper Level, Office 3/Drywall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	0.0%	100.0%	None Detected	

Client Sample ID: A23 (MR25) ***Lab Sample ID:*** **552105285-0023**

Sample Description: Municipal Building , Upper Level, Hallway/Drop Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Brown	85.0%	15.0%	None Detected	

Client Sample ID: A24 (MR25) ***Lab Sample ID:*** **552105285-0024**

Sample Description: Municipal Building Addition , Upper Level, Hallway, Inside Wall Cavity/Parging

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Gray	0.0%	100.0%	None Detected	

Client Sample ID: A25 (MR25) ***Lab Sample ID:*** **552105285-0025**

Sample Description: Municipal Building, Main Floor, Hallway, Wall Cavity/Cellulose

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Brown	85.0%	15.0%	None Detected	

Client Sample ID: A26 (MR25) ***Lab Sample ID:*** **552105285-0026**

Sample Description: Municipal Building Exterior Roof/Asphalt Single

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Black	35.0%	65.0%	None Detected	

Client Sample ID: A27 (MR25) ***Lab Sample ID:*** **552105285-0027**

Sample Description: Municipal Building Exterior Roof/Asphalt Single

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/05/2021	Black	35.0%	65.0%	None Detected	

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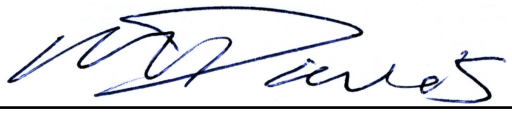
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Customer PO: 21-7850
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Nova Scotia Code of Practice Section 66 OHS Act - Asbestos in the Workplace via EPA600/R-93/116 Method

Analyst(s):

Tiffany Pilon PLM (30)

Reviewed and approved by:



Matthew Davis or other approved signatory
or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 04/05/202117:59:05

BV Labs Job #: C181408
Report Date: 2021/04/16

Strum Environmental
Client Project #: 21-7850
Sampler Initials: CS

RESULTS OF ANALYSES OF PAINT

BV Labs ID		PEJ314		
Sampling Date		2021/03/25		
COC Number		n/a		
	UNITS	L1(MR25)	RDL	QC Batch
Charge/Prep Analysis				
Dry Weight	g	50	0.010	7285212
Volume of Acetic Acid	mL/L	110	N/A	7285215
Inorganics				
Moisture	%	4.4	1.0	7281374
Initial pH	N/A	8.7	N/A	7285214
Final pH	N/A	5.4	N/A	7285214

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas Laboratories 200 Bluewater Rd, Suite 105, Bedford, Nova Scotia Canada B4B 1G9 Tel: 902-420-0203 Toll-free: 800-565-7227 Fax: 902-420-8612 www.bvlabs.com

BV Labs Job #: C181408
Report Date: 2021/04/16

Strum Environmental
Client Project #: 21-7850
Sampler Initials: CS

ELEMENTS BY ICP/MS (PAINT)

BV Labs ID		PEJ314		
Sampling Date		2021/03/25		
COC Number		n/a		
	UNITS	L1(MR25)	RDL	QC Batch
Metals				
Leachable Lead (Pb)	ug/L	400	5.0	7287688

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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BV Labs Job #: C181408
Report Date: 2021/04/16

Strum Environmental
Client Project #: 21-7850
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

BV Labs ID		PEJ314	PEJ314		
Sampling Date		2021/03/25	2021/03/25		
COC Number		n/a	n/a		
	UNITS	L1(MR25)	L1(MR25) Lab-Dup	RDL	QC Batch
Metals					
Acid Extractable Lead (Pb)	mg/kg	4300	4800	5.0	7275393

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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BV Labs Job #: C181408
Report Date: 2021/04/16

Strum Environmental
Client Project #: 21-7850
Sampler Initials: CS

RESULTS OF ANALYSES OF SOLID

BV Labs ID		PEJ316		
Sampling Date		2021/03/25		
COC Number		n/a		
	UNITS	L3(MR25)	RDL	QC Batch
Inorganics				
Final pH	pH	12.6		7298855
Initial pH	pH	11.1		7298855
TCLP - % Solids	%	100	0.2	7298849
TCLP Extraction Fluid	N/A	FLUID 1		7298854

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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BV Labs Job #: C181408
Report Date: 2021/04/16

Strum Environmental
Client Project #: 21-7850
Sampler Initials: CS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

BV Labs ID		PEJ315			PEJ316			PEJ317	PEJ318	PEJ319		
Sampling Date		2021/03/25			2021/03/25			2021/03/25	2021/03/25	2021/03/25		
COC Number		n/a			n/a			n/a	n/a	n/a		
	UNITS	L2(MR25)	RDL	QC Batch	L3(MR25)	RDL	QC Batch	L4(MR25)	L5(MR25)	L6(MR25)	RDL	QC Batch
Metals												
Lead (Pb)	mg/kg				8100	10	7282442					
Leachable Lead (Pb)	mg/L				27	0.1	7300290					
Acid Extractable Lead (Pb)	mg/kg	ND	5.0	7275392				52	22	32	5.0	7275392

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not detected

BV Labs ID		PEJ319	PEJ320		
Sampling Date		2021/03/25	2021/03/25		
COC Number		n/a	n/a		
	UNITS	L6(MR25) Lab-Dup	L7(MR25)	RDL	QC Batch
Metals					
Acid Extractable Lead (Pb)	mg/kg	36	31	5.0	7275392

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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